

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:** Assistant Commissioner for Patents, Washington, DC 20231.



PTO/SB/08B(10-01)

Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 2 of 2

Complete if Known

Application Number	10/075,434
Filing Date	02/14/02
First Named Inventor	Laiho
Group Art Unit	2681 2666 MAY 01 2003
Examiner Name	TBD
Attorney Docket Number	004770.0004

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
T.D		Digital Video Broadcasting (DVB); DVB specification for Data Broadcasting, European Broadcasting Union, EN 301 192 V1.2.1 (1999-06)	
T.D		Apostolis K. Salkintzis et al. "Performance Analysis of a Downlink Mac Protocol with Power-Saving Support", IEEE Transactions on Vehicular Technology, Vol. 49, No. 3, May 2000, pages 1029-1040	
T.D		Apostolis K. Salkintzis et al. "An In-Band Power-Saving Protocol for Mobile Data Networks" IEEE Transactions on Communications, Vol. 46, No. 9, Sept. 1998, pgs. 1194-1205.	
T.D		Draft Report of the 52 nd Meeting of DVB GBS, EBU Headquarters, Geneva, June 25 th /27 th 2002. pages 1-12.	

Examiner
Signature

DANIEL J. DRY

Date

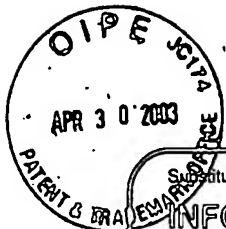
Considered

11/22/04

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.



PTO/SB/08A (10-01)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1 of 2

Complete if Known

Application Number	10/075,434
Filing Date	02/14/02
First Named Inventor	Laiho
Group Art Unit	2601 2666
Examiner Name	IBD DANK DNV
Attorney Docket Number	004770.00041

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
T-P		US- 2002/0010763 A1	01-24-02	Salo et al.	
		US- 4,449,248	05-15-1984	Leslie et al.	
		US-5,371,734	12-08-1994	Fischer	
		US- 5,539,925	07-23-1996	Yli-Kotila et al.	
		US- 5,710,756	01-20-1998	Pasternak et al.	
		US- 5,745,860	04-28-1998	Kallin	
		US- 5,883,899	03-16-1999	Dahman et al.	
		US- 5,886,995	03-23-1999	Arsenault et al.	
		US- 5,995,845	11-30-1999	Lardennois	
		US- 6,175,557	01-16-2001	Diachina eg al.	
		US- 6,226,278	05-01-2001	Bursztienj et al.	
		US- 6,262,982	07-17-2001	Donahue et al.	
		US- 6,262,990	07-17-2001	Ejiri	
		US- 6,282,209	08-28-2001	Kataoka et al.	
		US- 6,295,450	09-25-2001	Lyer	
		US- 6,339,713	01-15-2002	Hansson et al.	
T-P		US- 6,477,382	11-05-2002	Mansfield et al.	

RECEIVED

MAY 01 2003

Technology Center 2600

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)			
T-P		WO 00/67449 A1	11-09-2000	Fabiano et al.	
		WO 02/01879	01-03-2002	Aaltonen et al.	
		WO 02/03728	01-10-2002	Salo et al.	
		WO 02/03729	01-10-2002	Salo et al.	
		WO 01/31963	05-03-2001	Hasan et al.	
T-P		WO 01/72076	09-27-2001	Xu et al.	

Examiner
Signature

DANK DNV

Date
Considered

11/22/04

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04.³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Information Disclosure Statement
Serial No. 10/075,434



Sheet 1 of 1

PTO-1449 (Modified) U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT	ATTY. DOCKET NO. 004770.00041	SERIAL NUMBER 10/075,434
	APPLICANT Kimmo Laiho	
	FILING DATE February 14, 2002	GROUP ART UNIT 208T 2666

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE
T-D	2003/0067943 A1	4/10/03	Arsenault et al.	-	-	
T-D	6,490,727	12/3/02	Nazarathy et al.	-	-	
T-D	6,356,555	3/12/02	Rakib et al.	-	-	
T-D	6,335,766	1/1/02	Twitchell et al.	-	-	
T-D	6,285,686	9/4/01	Sharma	-	-	

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES/NO

RECEIVED

JUL 16 2003

Technology Center 2600

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

Search Report

EXAMINER DANIEL DORV	DATE CONSIDERED 11/22/04
EXAMINER: Initial citation if reference was considered. Draw line through citation if not in conformance to MPEP 609 and not considered. Include copy of this form with next communication to applicant.	

IDS w/1449 form filed: July 15, 2003

Information Disclosure Statement
Serial No. 10/075,434



Sheet 1 of 1

PTO-1449 (Modified) U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT	ATTY. DOCKET NO. 004770.00041	SERIAL NUMBER 10/075,434
	APPLICANT Kimmo Laiho	
	FILING DATE February 14, 2002	GROUP ART UNIT 2684 2666

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE
<i>F-P</i>	2002/0025777 A1	2/28/02	Kawamata et al.	—	—	
↑	6,167,248	12/26/00	Hamalainen et al.	—	—	
	6,088,412	7/11/00	Ott	—	—	
	6,047,181	4/4/00	Suonvieri	—	—	
↓	5,870,675	2/9/99	Tuutijärvi et al.	—	—	
<i>F-P</i>	5,513,246	4/30/96	Jonsson et al.	—	—	

RECEIVED
JUL 25 2003
Technology Center 2600

FOREIGN PATENT DOCUMENTS

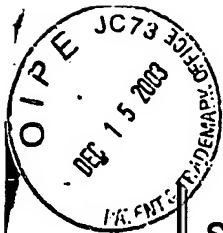
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES/NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

Search Report

EXAMINER <i>DANG DON</i>	DATE CONSIDERED <i>11/22/04</i>
EXAMINER: Initial citation if reference was considered. Draw line through citation if not in conformance to MPEP 609 and not considered. Include copy of this form with next communication to applicant.	

IDS w/1449 form filed: July 24, 2003



Signature

Examiner Name	Date
DANG, DON	11/22/04

RECEIVED
DEC 17 2003
Technology Center 2600

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 2

of 2

Complete if Known

Application Number	10/075,434
Filing Date	February 14, 2002
First Named Inventor	Laiho
Group Art Unit	2684 2666
Examiner Name	Gongvan Tran DANL, TDN
Attorney Docket Number	04770.00041

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
FD		HUANG, NEN-FU, et al.; "Architectures and Handoff Schemes for CATV-Based Personal Communications Network", Infocom '98, Seventeenth Annual Joint Conference of the IEEE Computer and Communications Societies, Proceedings. IEEE San Francisco, CA, USA; 29 March - 2 April 1998, New York, New York, USA, IEEE, US, 29 March 1998 (1998-03-29), pages 748-755.	
FD		European Search Report for EP 03255819, dated January 29, 2004.	

RECEIVED

APR 20 2004

Technology Center 2600

Examiner
Signature

DANL TDN

Date
Considered

11/22/04

¹ EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

² Unique citation designation number (optional). ³ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Substitute for form 1449A/PTO

Complete if Known

(use as many sheets as necessary)

Sheet	1	of	2
-------	---	----	---

Application Number	10/075,434
Filing Date	February 14, 2002
First Named Inventor	Kimmo Laiho, et al
Group Art Unit	2881 2666
Examiner Name	Gongvan Tran
Attorney Docket Number	04770.00041

Examiner Initials *	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			

RECEIVED

APR 20 2000

Technology Center

[illegible]

**Examiner
Signature**

DATE: 7/27

Date Considered

11/22/04

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04.
³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.**



PTO/SB/08a (05-03)

Approved for use through 04/30/2003. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	10/075,434
		Filing Date	February 14, 2002
		First Named Inventor	Kimmo Laiho et al.
		Art Unit	2883 2666
		Examiner Name	TBD DANG TON
Sheet 1 of 1	Attorney Docket Number	004770.00041	

U.S. PATENT DOCUMENTS							Class	Sub-class
Examiner Initials *	Cite No. ¹	Document Number Number - Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear			
T.D.		US-5,936,965	8/10/99	Doshi et al.				
T.D.		US- 5,764,700	6/09/98	Makinen				
T.D.		US- 5,359,607	10/25/94	Nguyen et al.				
T.D.		US- 4,601,586	7/22/86	Bahr et al.				
		US-						
		US-						
		US-						

RECEIVED

JUN 08 2004

Technology Center 2000

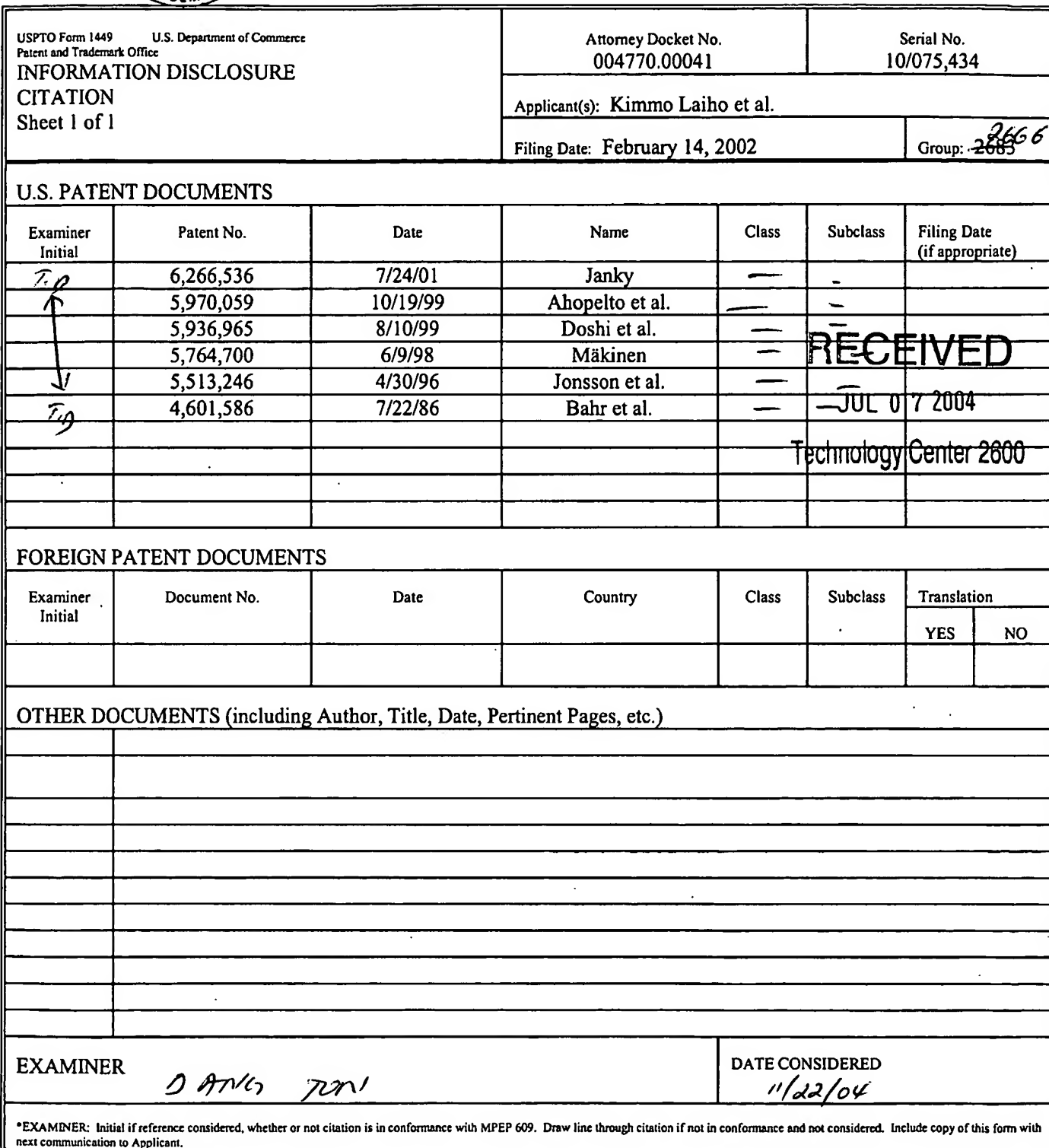
FOREIGN PATENT DOCUMENTS						
Examiner Initials *	Cite No. ¹	Foreign Patent Document Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
T.D.		Written Opinion from PCT/IB03/00694 dated May 3, 2004	

Examiner Signature	DANG TON	Date Considered	11/12/04
--------------------	----------	-----------------	----------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450.



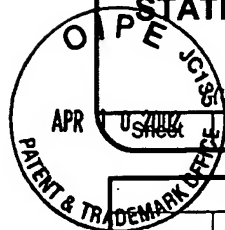
Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Complete if Known

Application Number	10/075,434
Filing Date	February 14, 2002
First Named Inventor	Laiho
Group Art Unit	2681 2666
Examiner Name	DAVIA DN
Attorney Docket Number	04770.00041

**U.S. PATENT DOCUMENTS**

Examiner Initials *	Cite No. ¹	Document Number Number - Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
ED		US-5,224,152	06/26/1993	Harte	
ED		US- 5,588,513	10/22/1996	Croft, et al.	
ED		US- 5,613,235	03/18/1997	Kivari, et al.	
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			

RECEIVED

APR 16 2002

Technology Center 2600

FOREIGN PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Foreign Patent Document Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
ED		WO00/36861	06/22/00	Kunkel		

Examiner
Signature

DAVIA DN

Date

Considered

11/22/04

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04.

³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Application Number	10/075,434
Filing Date	February 14, 2002
First Named Inventor	Laiho
Group Art Unit	2681
Examiner Name	n/a
Attorney Docket Number	04770.00041

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

[illegible]

RECEIVED
APR 16 2002
Technology Center 2600

**Examiner
Signature**

דאנאל דאן!

Date
Considered

11/22/04

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:** Assistant Commissioner for Patents, Washington, DC 20231.

+